



CHEMISTRY >> Electrochemistry

Q 1

A voltaic cell produces electrical energy from

A

Potential energy

B

Chemical energy of Ions

C

Kinetic Energy

D

Free Electrons

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Q 2

Organic compounds are_____?

A

Inorganic

B

Polar

C

Ionic

D

Non-Polar

1

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Q 3

_____cathode is used in discharge tube experiment for discovery of protons

A

flat

B

round

C

perforated

D

oval

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Q 4

In general, atomic radii decreases from left to right in a period, due to increase in

A

number of shells

B

nuclear charge

C

shielding effect

D

bond length

3

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Q 5

In Charles's Law, volume of gas is directly related to which factor?

A

Pressure

B

Temperature

C

Volume

D

Number of moles

4

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Q 6

Concentration of reactants and products are expressed as Moles per unit

A

Area

B

length

C

Volume

D

None of these

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Q 7

During bond formation d orbitals splits into ____ of orbitals ?

A

3 sets

B

4 sets

C

5 sets

D

2 sets

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Q 8

Rate of chemical reactions helps in designing industrial process which is

A

Completed instantaneously

B

Slow

C

Economical

D

None of these

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Q 9

Which of the following reaction is concerted(single step) ?

A

SN1,E1

B

SN2,E1

C

SN2,E2

D

None of these

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Q 10 In Thermodynamic terms boundary separates_____?

A Surrounding from the environment

B Reactants from contamination

C System from surrounding

D Products from the surrounding

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Q 11

Arrangement of atoms in Molecular Solids can be studied with the help of

A

Gamma Rays

B

X Rays

C

Spectrometry

D

Electron Microscope

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Q 12 Which of the following is the function of formalin?

A Antiseptic

B Disinfectant

C Germicide

D All of these

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Q 13

Methanol is prepared by compressing water gas mixture at pressure

A

3 atm

B

2 atm

C

45 atm

D

25 atm

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Q 14

Molecules that have high molecular mass and consist of large number of atoms are called as _____?

A

Micro molecules

B

Macromolecules

C

Polypeptides

D

Carbohydrates

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Q 15 Which one of the following is correct structure of benzene?

A Tetrahedral

B Hexagonal planer

C Hexagonal irregular

D Trigonal planar

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Q 16

In Hydrogen bonding, the O-atom of water molecule forms a ____ bond with H-atom of other molecule by sharing its ____ of electron

A

ionic, one

B

coordinate covalent, one lone pair

C

covalent, 2 lone pair

D

all of these

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Q 17 The rate expression have a negative sign for

A Disappearance of Reactants

B Formation of Products

C a given time

D All of these

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Q 18

Which of the following product is formed when phenol reacts with sulphuric acid 100°C ?

A

ortho-hydroxy benzene sulphonic acid

B

Para-hydroxy benzene sulphonic acid

C

o and p- benzene sulphonic acid

D

Both a and b

17

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Q 19

In which of the following dipoles are not present ?

A

Water

B

HCl

C

Noble gases

D

Chloroform

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Q 20

Which forces are very significant in non-polar molecules like Cl_2 , H_2 and noble gases

A

dipole-dipole

B

induced dipole

C

London

D

spontaneous induced dipole

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Q 21

For Ideal gases the molar concentration can be expressed as their

A

Volume

B

density

C

partial pressure

D

temperature

20

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Q 22

Three dimensional folding of polypeptide chain results in formation of_____.

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

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Q 23

Which one of the following is common name of Butanoic acid ?

A

Butyric acid

B

Barbaric acid

C

Iso-butyric acid

D

Iso-Barbaric acid

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Q 24

The SI unit for work is

A

Newtons

B

Joule

C

Newton/metre

D

All of these

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Q 25

There are just only a few stable compounds, formed by noble gases like

A

 XeF_2

B

 XeOF_2

C

 XeO_3

D

all of these

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Q 26 d-block elements are present _____ in the periodic table ?

- A Right of the periodic table
- B Left of the periodic table
- C Bottom of periodic table
- D Between s and p block elements

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Q 27

The sum of cationic and anionic radius in a crystal lattice is equal to

A

inter-titan distance R

B

inter ionic distance R

C

inter- cationic distance R^+

D

inter-anionic distance R^-

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Q 28

In balancing it is very important to identify the substance whose

A

Physical state is changed

B

oxidation number is changed

C

Enthalpy is changed

D

All of these

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Q 29

Large hydrocarbons are converted into smaller hydrocarbons by a process called as?

A

Reforming

B

Distillation

C

Cracking

D

Decomposition

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Q 30 After adding two half reactions in ion electron method

A Net charge should be same on each side

B Total number of atoms should be same

C Total number of Ions should be same

D Both A and B

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Q 31 Which one of the following is larger in size than oxygen atom_____?

A Fluorine

B Nitrogen

C Hydrogen

D Neon

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Q 32

When we move from left to right in transition elements, the decrease is ____ due to intervening electrons

A

large

B

very large

C

small

D

very small

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Q 33

In a carboxylic acid dimer how many H-bonds are present ?

A

Three

B

Two

C

Five

D

One

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Q 34 The rate of S_N1 reaction become doubled if _____?

A Concentration of Nucleophile doubled

B Concentration of Substrate doubled

C Concentration of Substrate Tripled

D Concentration of substrate remain same

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Q 35

Li is different from its family members due to

A

Small size

B

High charge density

C

Less electro positivity

D

All of the above

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Q 36

It is the fact that 22.414 dm³ of any gas has a different masses but the same number of _____

A

atoms

B

particles

C

molecules

D

none of these

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Q 37

What is the IUPAC name of $\text{CH}_3(\text{CH}_3)\text{CHCH}_3$?

A

1-Methylpropane

B

Isobutane

C

2-Methylpropane

D

Isopropyl methane

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Q 38

The shape of KNO_3 above 128°C is

A

cubic

B

orthorhombic

C

rhombohedral

D

tetragonal

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Q 39

Which of the following reaction is used to produce symmetrical alkanes from alkyl halides?

A

Wittig reaction

B

Kolbe's electrolysis

C

Reduction of alkyl halide

D

Wurtz reaction

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Q 40

Heat supplied at constant pressure equals to

A

Activation Energy

B

Internal energy change

C

Entropy

D

Enthalpy

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Q 41 In Chemistry the work is generally

A Done by Temperature change

B Pressure - Temperature Work

C Pressure Volume Work

D None of these

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Q 42

Select the most electronegative element among the following:

A

I

B

F

C

He

D

O

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Q 43 Half-life can be found out for a reaction of

A first order

B Second Order

C Any Order

D Zero Order

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Q 44

Which of the following causes the inactivation of enzymes _____?

A

Concentration of substrate

B

Optimum temperature

C

Beta radiation

D

Optimum pH

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Q 45

metals are malleable and ductile because their layers _____ on applying pressure

A

remain fixed

B

slip past each other

C

rotate

D

twist

44

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Q 46 In IUPAC nomenclature , ketones are named as _____?

A Alkanol

B Alkanal

C Alkanone

D Alkyl halides

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Q 47

In stoichiometry, we follow law of _____ while doing calculations.

A

conservation of mass

B

definite proportion

C

both A & B

D

none of these

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Q 48

2 moles of octane (C_8H_{18}) burns with 25 moles of oxygen (O_2) and produced ____ moles of carbon dioxide along with 18 moles of water

A

14

B

16

C

18

D

2

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Q 49

How many electrons can occupy in 7th energy level of an atom. Calculate by using $2n^2$ formula.

A

24

B

5

C

72

D

98

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Q 50

The transition elements belongs to Group VIB are

A

Zn ,Cd, Hg

B

Fe, Ru, Os

C

Mn, Te, Re

D

Cr, Mo, W

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Q 51

The molecules of CO_2 in dry ice form

A

covalent crystals

B

ionic crystals

C

metallic crystals

D

molecular crystals

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Q 52

 $K_p = K_c (RT)^{\Delta n}$, T stands for

A

Temperature

B

Absolute Temperature

C

Critical Temperature

D

All of these

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Q 53

Rate of a reaction is dependent on

A

Reactant's Concentration

B

Product Concentration

C

Slowest Step

D

All of these

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Q 54

The molecular geometry of SO_2 is

A

annular

B

ring

C

angular

D

linear

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Q 55

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

 H_2SO_4

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Q 56 2-hydroxy propanoic acid is also called as_____?

A Stearic acid

B Butyric acid

C Maleic acid

D Lactic acid

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Q 57

A diode works in _____ bias for rectification

A

forward

B

reverse

C

mid

D

positive

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Q 58

SI unit of resistivity is

A

ohm

B

ohm meter

C

ohm/meter

D

meter/ohm

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Q 59

Lasers are produced by

A

stimulated emission

B

spontaneous emission

C

absorption

D

all of these

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Q 60

The particle that possesses half integral spin has

A

pion

B

proton

C

k-meson

D

photon

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Q 61 Which of the following statements is true?

- A Power is proportional to voltage only
- B Power is proportional to current only
- C Power is neither proportional to voltage nor to the current
- D Power is proportional to both the voltage and current

60

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Q 62

The displacement is a:...

A

vector quantity

B

scalar quantity

C

neither vector nor scalar quantity

D

dimensionless quantity

61

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Q 63

The angle subtended at the center of a circle by an arc equal to the radius of the circle is

A

One degree

B

One rotation

C

One radian

D

None of these

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Q 64

What will be the product after alpha decay of U-238?

A

Th-234

B

Po-234

C

Rn-234

D

none of these

63

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Q 65

If a pipe is closed at one end and open at the other, the closed end is a:

A

antinode

B

node

C

rarefaction

D

crest

64

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Q 66

A strong magnetic field is applied on a stationary electron. Then the electron

A

moves in the direction of the field.

B

moves perpendicular to the direction of the field.

C

moves opposite to the direction of the field.

D

remains stationary.

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Q 67

Force acting on a negative charge is always:....

A

in the direction opposite to electric field

B

in the direction of electric field

C

in the direction perpendicular to electric field

D

in the direction perpendicular to the velocity of charge

66

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Q 68

When an ideal gas of constant mass is heated in a container of fixed volume. What is the reason for the increase in pressure of the gas?

- A number of molecules per unit volume increases
- B molecules occupy greater volume of the container
- C average force per impact at the container wall increases
- D molecules collide with each other with greater force

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Q 69

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q 70

The atomic mass unit is unit of

A

distance

B

mass

C

time

D

none of these

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Q 71 Wave theory of light is unable to prove

A Black body radiation

B Photoelectric effect

C Compton effect

D All of them

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Q 72

UV radiation is formed by bombarding gas molecules with

A

electron

B

protons

C

alpha rays

D

any of these

71

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Q 73

A charge is moving with velocity v , it enters a uniform magnetic field B . The direction of v is perpendicular to B . What is the path of the charge particle inside the magnetic field?

A parabolic

B circular

C parallel to v

D parallel to E

72

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Q 74

A wave passes through a medium, each particle of the medium performs 100 complete vibrations in 5 seconds. What is the frequency of the wave:

A

2 Hz

B

20 Hz

C

4 Hz

D

40 Hz

73

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Q 75

Projectile motion of object on earth is always

A

linear

B

parabolic

C

cubic

D

inverse

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Q 76

Reciprocal of resistivity is called

A

Resistance

B

Inductance

C

Conductivity

D

Flexibility

75

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Q 77

Which, among the following qualities, is not affected by the magnetic field?

A

Moving charge

B

change in magnetic flux

C

current flowing in conductor

D

stationary charge

76

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Q 78

When path difference between two waves are odd integral multiple of half the wavelength, the resultant effect is called

A

destructive interference

B

constructive interference

C

beats

D

diffraction

77

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Q 79

Do magnetic flux lines intersect?

A

Yes

B

No

C

depends on strength of field

D

cannot be determined

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Q 80

The resistance of a conductor at absolute zero (0 K) is

A

Almost zero

B

Almost infinite

C

No prediction at all

D

May increase or decrease

79

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Q 81

If a particle have charge q is accelerated through a potential difference V , then energy acquired by the particle is:...

A

$$V \times 2$$

B

$$V \times q$$

C

$$qV \times 2$$

D

$$qV$$

80

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Q 82

Angle between radius vector and centripetal acceleration is

A

 0°

B

 π

C

 2π

D

none of these

81

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Q 83

Which of the following blocks will release heat fast

A

rough white surface

B

polished white surface

C

rough black surface

D

polished black surface

82

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Q 84

Photons of energy 10.25 eV fall on the surface of the metal emitting photoelectrons of maximum kinetic energy 5.0 eV. What is the stopping voltage required for these electrons?

A 10V

B 8V

C 5V

D 4V

83

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Q 85

If the number of flux passing through a coil per unit time is doubled then motion emf also

A

halves

B

triples

C

doubles

D

remains unchanged

84

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Q 86

A body of mass 10 kg is travelling with uniform speed of 5 m/s. Its kinetic energy is

A

125 J

B

250 J

C

500 J

D

255 J

85

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Q 87

Centrifugal acceleration of a car moving around in a circle of radius 5 m with 10 m/s velocity

A

 20 m/s^2

B

 10 m/s^2

C

 6 m/s^2

D

 11 m/s^2

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Q 88

Work done in an adiabatic process in a gas depends on

A

Change in pressure

B

Change in temperature

C

Change in Volume

D

All of these

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Q 89

The star which is very hot will emit ____ color

A

Blue

B

red

C

orange

D

green

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Q 90

Velocity of an object changes from 20 m/s to 50 m/s in 5 sec. What is the acceleration of the object?

A

6 m/s

B

6 m/s²

C

10 m/s

D

10 m/s²

89

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Q 91

A car is moving in a circular track of diameter 100m at a constant speed of 40m/sec. Find the centripetal acceleration?

A 42 m/s^2 B 52 m/s^2 C 32 m/s^2 D 30 m/s^2

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Q 92

A spring having spring constant of 10 N/m^2 is stretched to 5 m , what will be the work done

A

250 J

B

50 J

C

-250 J

D

125 J

91

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Q 93

A horse is pulling a cart of mass 50 kg in the horizontal direction, if the distance travelled is 20 m then what will be the work done by normal force

A 1000 J

B -1000 J

C 0

D 500 J

92

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Q 94

The bridge rectifier is preferred to an ordinary two diode full wave rectifier because

A

it needs much smaller transformer for the same output

B

no center tap required

C

less PIV rating per diode

D

All of the above

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Q 95

The wavelength of matter wave is independent of :

A

Mass

B

Velocity

C

kinetic energy

D

Charge

94

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Q 96

Half wave rectifier passes only

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

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Q 97

When path difference between two waves are integral multiple of wavelength, the resultant effect is called:

A destructive interference

B constructive interference

C beats

D diffraction

96

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Q 98

In order to enhance magnetic flux, the primary and secondary coils of the transformer are wound on

A

soft iron core

B

iron core

C

hard iron core

D

steel core

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Q 99

An object moves 20 m towards east and then 10 m towards west, in 5 sec. What is its average velocity and average speed?

A

speed = 6 m/s velocity = 2 m/s

B

speed = 6 m/s velocity = 6 m/s

C

speed = 2 m/s velocity = 2 m/s

D

speed = 2 m/s velocity = 6 m/s

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Q 100

In a centre tap full wave rectifier if V_m is the peak voltage across the secondary of transformer, the maximum voltage across reverse bias is

A

 V_m

B

 $V_m/\sqrt{2}$

C

 $2V_m$

D

 $V_m/3$

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Q 101

300 W heater is used to boil 500g of water at 100C. How long should the heater be switched on? Specific latent heat of vaporization of water is 2230 J/g.

A 62 mins

B 62 sec

C 1.5 hour

D 0.5 hour

100

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Q 102

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A isotopes

B isobars

C isomers

D isotherms

101

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Q 103

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is parallel to the field

A 0.01 wb

B 0 Wb

C $8.66 \times 10^{-3} \text{ Wb}$

D 0.86 wb

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Q 104

The energy stored in a parallel plate capacitor is 24 J. What is the potential difference between the plates if the capacitance of the capacitor is $3\text{ }\mu\text{F}$?

A

4 kV

B

16 kV

C

54 kV

D

8 kV

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Q 105

If $^{238}_{94}\text{Pu}$ decay an alpha particle the new atomic number and mass number are

A 234,90

B 234,92

C 231,97

D none of these

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Q 106

The wavelength of x-ray is controlled by_____

A

increasing temperature

B

decreasing pressure

C

increasing P.D of electrodes

D

none of these

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Q 107

The phase angle between two points in a medium is $3\pi/4$. If the distance between these points is 20 cm, then wavelength of the wave is?

A $8/15$ mB $15/8$ mC $8/15$ cmD $15/8$ cm

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Q 108

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A

1

B

0.1

C

0.01

D

None of these

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Q 109

Which of the following losses in a transformer is zero even at full load

A

Eddy current loss

B

Core loss

C

Copper loss

D

Friction loss

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Q 110

A reversible carnot engine converts $\frac{1}{6}$ th of heat into input work then efficiency of engine is

A

0.5

B

0.6

C

0.1666

D

0.32

109

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Q 111

The angular frequency is related to linear frequency by relation

A inversely

B directly

C equally

D none of these

110

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Q 112

A uniform chain of mass M and length L is lying on a smooth table and a part of it is hanging from the table. The work required to pull the hanging part of the chain on to the table is . Find the part of the chain in terms of its length which is hanging from the table:

A

 $L/3$

B

 $L/4$

C

 $L/6$

D

 $L/2$

111

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Q 113

In non-competitive inhibition, the extent of inhibition depends only on?

- A concentration of enzyme
- B concentration of substrate
- C concentration of ES complex
- D concentration of inhibitor

112

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Q 114

The membrane of vacuole is called:

A

Tonoplast

B

Plasma membrane

C

Epidermis

D

Both B and C

113

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Q 115

The gene which cannot be determined by observing the organism is?

A

dominant

B

allele

C

phenotype

D

recessive

114

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Q 116

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

115

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Q 117

In uncompetitive inhibition, the inhibitor binds with

A

enzyme

B

substrate

C

ES-complex

D

all of these

116

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Q 118

Thylakoids in chloroplasts are stacked into?

A

Grana

B

Stroma

C

Nucleus

D

None of these

117

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Q 119

Aschelminthes is also known as which of the following?

A

Protozoans

B

Eumetazoa

C

Protocist ancestors

D

Nematodes

118

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Q 120

Smooth muscles, cardiac muscles and organs are regulated by which of the following?

A

Central nervous system

B

Parasympathetic nervous system

C

Sympathetic nervous system

D

Autonomic system

119

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Q 121

The thalamus and the hypothalamus are located in which region of the brain?

A brain stem

B cerebrum

C cerebellum

D Diencephalon

120

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Q 122

A structural component that is found in all viruses is?

A

envelope

B

DNA

C

Capsid

D

Tail Fibers

121

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Q 123

The size of Spirochete is approximately?

A

0.75-1.25 μm

B

100-200 nm

C

0.1 -600 μm

D

500 μm

122

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Q 124

Factory of ribosomal synthesis is?

A

cytoplasm

B

nucleus

C

nucleolus

D

endoplasmic reticulum

123

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Q 125

In parthenocarpy which levels are high in ovaries?

A

gibberellins

B

cytokinins

C

auxins

D

all of these

124

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Q 126

Which of the following are believed to have common origin with annelids?

A nematodes

B Arthropods

C molluscs

D none of these

125

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Q 127

Which of the following statements is correct distinction between autotrophs and heterotrophs

A

only heterotrophs require chemical compounds from the environment

B

cellular respiration is unique to heterotrophs

C

only heterotrophs have mitochondria

D

autotrophs but not heterotrophs can nourish themselves beginning with nutrients that are entirely inorganic

126

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Q 128

Out of 31 pairs of spinal nerves, how many pairs of coccygeal nerves are there?

A 1

B 5

C 10

D 12

127

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Q 129

Which of the following can not be used to mediate the fusion of plasma membranes of two different cells?

A

electric shock

B

inactivated viruses

C

polyethylene glycol

D

emulsifier

128

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Q 130

Visible genetic traits include which of the following?

A hair color

B eye color

C number of limbs

D all of these

129

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Q 131

Molecular formula of chlorophyll b is?

A

 $C_{55}H_{10}O_4N_6Mg$

B

 $C_{55}H_{70}O_6N_5Mg$

C

 $C_{55}H_{71}O_6N_4Mg$

D

 $C_{55}H_{70}O_6N_4Mg$

130

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Q 132

Cryptorchidism is a condition where?

A

One of both testes are not developed

B

One or both testes are not formed

C

One or both testes fail to descend into the scrotum

D

none of these

131

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Q 133

Cancer expands systematically by:

A

Locally

B

Systemic

C

Metastasis

D

Invasion

132

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Q 134

The muscle which moves a body part towards the midline of the body is:

A

flexor muscles

B

Extensor muscles

C

adductor muscles

D

abductor muscles

133

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Q 135

In alkaline medium amino acids carry negative charge and act as

A

acid

B

base

C

neutral

D

none of these

134

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Q 136

Lymphocytes are found in:

A

Lymph capillary

B

Lymph vessel

C

Lymph trunk

D

lymph node

135

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Q 137

Which of the following cells do not possess a nucleus?

A

Sieve tube cells

B

Bacteria

C

Red blood cells

D

All of the above

136

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Q 138

Sperms are produced in the testes and stored in?

A

testes

B

scrotal sacs

C

seminal vesicle

D

prostate gland

137

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Q 139

When puberty takes place in girls, which one of the following does not occur?

A

Shoulders broaden

B

Breasts enlarge

C

Eggs start producing

D

Womb grows bigger

138

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Q 140

The material in brain and spinal cord contains cell bodies and dendrite of nerve cells is:

A

White matter

B

Gray matter

C

brown matter

D

blue matter

139

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Q 141

The arrangement of cocci is basically due to thier

A

shapes

B

planes of division

C

binary tission

D

chain formation

140

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Q 142

Which of the following are the main functions of the capsid?

A Determines the antigenic specificity of the virus

B Protects genetic material from nuclease attack

C Both A and B

D none of the above

141

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Q 143

Glycophorin is involved in which of the following disease?

A

viral fever

B

common cold

C

asthma

D

malaria

142

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Q 144

The organs that produce reproductive cells are known as?

A

gametes

B

gonads

C

glands

D

follicles

143

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Q 145

Enzyme which helps in changing the shape of molecule is called?

A

ligases

B

dehydrogenases

C

hydrolyses

D

isomerases

144

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Q 146

Which of the following is false about conjugation?

A

It forms a bridge between two bacterial cells

B

It involves transport of genetic material via vectors

C

It is a form of sexual reproduction

D

both a and b

145

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Q 147

Cytochromes are electron transport intermediates containing?

A

myoglobin

B

heam

C

globulin

D

fibrin

146

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Q 148

Binary fission occurs in which stage of the bacteriophage life cycle?

A lysogenic cycle

B lytic cycle

C both

D none

147

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Q 149

The cartilage protects the trachea from:

A collapsing

B swelling

C vibrating

D breaking

148

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Q 150

Genotype ratio of Mendel's law of independent assortment is which of the following?

A

3:1

B

1:02:01

C

9:3:3:1

D

none of these

149

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Q 151

Two pea plants are crossed. One plant is homozygous dominant for purple flowers, and the other is homozygous recessive for white flowers. What fraction of the F₂ population will have white flowers?

A $\frac{1}{4}$ B $\frac{1}{2}$ C $\frac{1}{8}$ D $\frac{1}{16}$

150

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Q 152

Which of the following is false about the sarcoplasmic reticulum?

A

The sarcoplasmic reticulum is a specialized smooth endoplasmic reticulum

B

The sarcoplasmic reticulum releases calcium ions into the cytoplasm of the muscle cell

C

A change in membrane potential causes the sarcoplasmic reticulum to become more permeable to calcium ions

D

The sarcoplasmic reticulum is found only in voluntary muscle cells

151

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Q 153

Which type of reflex arc affects inner organs?

A

autonomic reflex arc

B

somatic reflex arc

C

Both A and B

D

None of these

152

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Q 154

Which cells absorb carbon dioxide in the leaf?

A

neutrophil cells

B

basophil cells

C

mesophyll cells

D

all of these

153

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Q 155

What is the definition of "fitness" in terms of evolution?

A

The organism's ability to attain resources while in competition with other organisms of its species

B

The organism's ability to attract the most mates

C

The organism's health

D

The ability of an organism to contribute its genes to future generations

154

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Q 156

The number of functional parts in forebrain is:

A

2

B

3

C

4

D

5

155

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Q 157

Spherical or tubular membranes which separate the material present in endoplasmic reticulum from that of cytoplasmic material are called?

A cytosol

B cisternae

C lysosomes

D cristae

156

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Q 158

Vertebrates are evolutionarily adapted to terrestrial life. Which one of the following adaptations is LEAST likely to contribute to this land-based predominance?

A

Internal fertilization

B

Impermeable outer skin

C

Development of legs

D

Short loops of Henle

157

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Q 159

Non toxic vitamins include which of the following?

A

vitamin c

B

vitamin b

C

both a and b

D

none of these

158

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Q 160

The following enzymes are regulated by calcium ions____

A

DNA polymerase

B

adenylate cyclase

C

phosphoprotein phosphatase

D

nitric oxide synthetase

159

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Q 161

Which of the following organism has a eel like body?

A

Chondrichthyes

B

Osteichthyes

C

Cyclostomata

D

both a and b

160

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Q 162

When a female ovulates, in what phase of division is the oocyte?

A

Anaphase I

B

Prophase I

C

Metaphase I

D

Metaphase II

161

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Q 163

The process that does not occur during expiration is:

A intercostal muscles are relaxed

B ribs are relaxed

C muscles of diaphragm are relaxed

D Lungs are relaxed

162

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Q 164

Which of the following is not a viral disease?

A

smallpox

B

mumps

C

tetanus

D

cowpox

163

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Q 165

Hydrolysis of fats by alkali is called

A

Saponification number

B

Saponification

C

Both (A) and (B)

D

None of these

164

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Q 166

Inflammation of the joint is known as

A

Sciatica

B

Arthritis

C

Spondylosis

D

Disc-slip

165

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Q 167

Of the following, which one is a light gathering structure?

A Antenna complex

B reaction center

C photosystem

D none of these

166

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Q 168

The part of chlorophyll molecule is embedded in the core of thylakoid membrane which is?

A Hydrophilic

B Hydrophobic

C both of these

D none of these

167

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Q 169

Cnidaria is characterized by which of the following?

A

Tissue level of organization

B

Nematoblasts

C

Coelenteron

D

all of these

168

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Next Question 

Q 170

The bronchitis is of types?

A

2

B

3

C

4

D

5

169

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Q 171

The brain that coordinates skeletal muscle movements is:

A

thalamus

B

amygdala

C

hypothalamus

D

cerebellum

170

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Q 172

For a diploid species, each locus is represented _____ in the genome of an individual

A

Sight

B

Once

C

Twice

D

Empty space

171

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Q 173

A key property of a living being is that it contains _____ for making its protein

A

amino acids

B

mitochondria

C

mRNA

D

ribosomes

172

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Q 174

Pidgeon, platypus and panda are all representatives of which of the following?

A

Homeothermic

B

Hyperthermic

C

Poikilothermic

D

none of these

173

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Q 175

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A zygote

B egg

C embryo

D fetus

174

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Q 176

The soluble sap of the nucleus in a plant cell is called?

A

cytoplasm

B

nucleoplasm

C

protoplasm

D

protoplast

175

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Q 177

The several distinct arrangements of cocci is based on their

A

long chain of cells

B

planes of division

C

grape like clusture shape

D

All of Above

176

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Q 178

Radial symmetry is found in which of the following organisms?

A

Coelenterata and Platyhelminthes

B

Arthropoda and Mollusca

C

Porifera and Coelenterata

D

Coelenterata and Echinodermata

177

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Q 179

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

178

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Q 180

What type of inhibition effects both the Michaelis constant and the maximum reaction rate of an enzyme?

A Non-competitive inhibition

B Competitive inhibition

C Uncompetitive inhibition

D all of these

179

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Demonstrate control of tenses and sentence structure

Q 181

What is your name?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

180

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

181

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct spelling of the word

A

shoose

B

shoes

C

shews

D

sheos

182

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 184

Plenty of mangoes and bananas _____ available in this season.

A

is

B

are

C

was

D

were

183

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Next Question 

Demonstrate control of tenses and sentence structure

Q 185

The plane _____ at 5:00.

A

arrived

B

will arrive

C

shall arrive

D

arrive

184

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Next Question >

Comprehend key vocabulary

Q 186

reluctant

A

hesitant

B

ready

C

eager

D

willing

185

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Next Question >

Demonstrate correct use of articles and prepositions

Q 187

_____ apple a day keeps the doctor away.

A

A

B

An

C

The

D

No article

186

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 188

The teacher _____ completed this chapter.

A

have

B

has

C

is

D

are

187

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Demonstrate control of tenses and sentence structure

Q 189

All that _____ is not gold.

A

glitter

B

has glittered

C

glitters

D

is glittering

188

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 190

A pair of socks _____ been missing from my wardrobe.

A have

B has

C were

D is

189

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Next Question 

Comprehend key vocabulary

Q 191

rectify

A

correct

B

preserve

C

repeat

D

justify

190

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Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 192

Choose the correct spelling of the word

A

doen

B

dun

C

don

D

done

191

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 193

She is very weak (A) / in the subject(B)// and does not understand things (C)// though the teacher explains her repeatedly. (D)

A

She is very weak

B

in the subject

C

and does not understand things

D

though the teacher explains her repeatedly.

192

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Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 194

Choose the correct sentence.

A

Didnt you hear that the exam was changed to next week.

B

Didn't you hear, that the exam was changed to next week?

C

Didn't you hear that the exam was changed to next week?

D

Did'nt you hear that the exam was changed to next week?

193

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Comprehend key vocabulary

Q 195

This medicine is _____ from plants.

A

deprived

B

derived

C

derisive

D

derivative

194

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Next Question 

Comprehend key vocabulary

Q 196

Your performance _____ our expectations.

A

except

B

excelled

C

exceeded

D

expected

195

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Next Question 

Demonstrate correct use of articles and prepositions

Q 197

It was _____ dark, dreary night.

A

a

B

an

C

the

D

no article

196

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 198

Choose the correct sentence.

A

Mother said "leave the dishes on the table until we have finished eating."

B

Mother said "Leave the dishes on the table until we have finished eating."

C

Mother said, "Leave the dishes on the table until we have finished eating."

D

Mother said, leave the dishes on the table until we have finished eating.

197

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Next Question 

Demonstrate correct use of articles and prepositions

Q 199

_____ man is mortal.

A

A

B

An

C

The

D

No article

198

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 200

Neither me nor my parents ____ aware of the incident.

A

would be

B

is

C

was

D

were

199

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Number series

Q 201

2 look at this series 7,10,8,11,9,12. Which number you think will be next?

A

10

B

12

C

13

D

7

200

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Dependent Causes/ Independent Causes/

Q 202

Statement: The literacy rate in the district has been increasing for the last four years. The district administration has conducted extensive training programme for the workers involved in the literacy drive.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

201

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Complete the series

Q 203

What is the common vowel in Apple and Banana?

A

E

B

P

C

A

D

M

202

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Statements and Actions

Q 204

Statement According to reports the childrens below age 10 are being aggressive because of mobile phones I. Parents needs to be strict to their child. II. Parents need to be concerned and lemmatize their screening time.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

203

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Statements and Actions

Q 205

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

204

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Dependent Causes/ Independent Causes/

Q 206

Statement: The prices of vegetables have been increased considerably during this summer. There is tremendous increase in the temperature during this summer thereby damaging crops greatly.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

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Essential parts

Q 207

A city can not exist without?

A

Residents

B

Shops

C

shopping Malls

D

Grounds

206

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Making Judgements

Q 208

Arrange the following words in a meaningful sequence. 1.Infection 2.Consultation 3.Doctor 4.Treatment 5.Recovery

A 1, 3, 4, 5, 2

B 1, 3, 2, 4, 5

C 1, 2, 3, 4, 5

D 2, 3, 5, 1, 4

207

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Statements and Actions

Q 209

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

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Complete the series

Q 210

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

209

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Q1 Organic compounds are_____?

A Inorganic

B Polar

C Ionic

D Non-Polar

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Q2

_____cathode is used in discharge tube experiment for discovery of protons

A

flat

B

round

C

perforated

D

oval

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Q3

In general, atomic radii decreases from left to right in a period, due to increase in

A

number of shells

B

nuclear charge

C

shielding effect

D

bond length

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Q4

Concentration of reactants and products are expressed as Moles per unit

A

Area

B

length

C

Volume

D

None of these

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Q5

During bond formation d orbitals splits into ____ of orbitals ?

A

3 sets

B

4 sets

C

5 sets

D

2 sets

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Q6

Rate of chemical reactions helps in designing industrial process which is

A

Completed instantaneously

B

Slow

C

Economical

D

None of these

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Q7

Which of the following reaction is concerted(single step) ?

A

SN1,E1

B

SN2,E1

C

SN2,E2

D

None of these

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Q8

In Thermodynamic terms boundary separates_____?

A

Surrounding from the environment

B

Reactants from contamination

C

System from surrounding

D

Products from the surrounding

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Q9

Arrangement of atoms in Molecular Solids can be studied with the help of

A

Gamma Rays

B

X Rays

C

Spectrometry

D

Electron Microscope

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Q10 Which of the following is the function of formalin?

A Antiseptic

B Disinfectant

C Germicide

D All of these

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Q11 Molecules that have high molecular mass and consist of large number of atoms are called as _____?

A Micro molecules

B Macromolecules

C Polypeptides

D Carbohydrates

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Q12

Which one of the following is correct structure of benzene?

A

Tetrahedral

B

Hexagonal planer

C

Hexagonal irregular

D

Trigonal planar

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Q13

In Hydrogen bonding, the O-atom of water molecule forms a ____ bond with H-atom of other molecule by sharing its ____ of electron

A

ionic, one

B

coordinate covalent, one lone pair

C

covalent, 2 lone pair

D

all of these

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Q14

The rate expression have a negative sign for

A

Disappearance of Reactants

B

Formation of Products

C

a given time

D

All of these

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Q15

Which of the following product is formed when phenol reacts with sulphuric acid 100 °C?

A

ortho-hydroxy benzene sulphonic acid

B

Para-hydroxy benzene sulphonic acid

C

o and p- benzene sulphonic acid

D

Both a and b

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Q16

In which of the following dipoles are not present ?

A

Water

B

HCl

C

Noble gases

D

Chloroform

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Q17

Which forces are very significant in non-polar molecules like Cl_2 , H_2 and noble gases

A

dipole-dipole

B

induced dipole

C

London

D

spontaneous induced dipole

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Q18

For Ideal gases the molar concentration can be expressed as their

A

Volume

B

density

C

partial pressure

D

temperature

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Q19

Which one of the following is common name of Butanoic acid ?

A

Butyric acid

B

Barbaric acid

C

Iso-butyric acid

D

Iso-Barbaric acid

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Q20

The SI unit for work is

A

Newtons

B

Joule

C

Newton/metre

D

All of these

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Q21

There are just only a few stable compounds, formed by noble gases like

A

XeF_2

B

XeOF_2

C

XeO_3

D

all of these

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Q22

d-block elements are present _____ in the periodic table ?

A

Right of the periodic table

B

Left of the periodic table

C

Bottom of periodic table

D

Between s and p block elements

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Q23

The sum of cationic and anionic radius in a crystal lattice is equal to

A

inter-titan distance R

B

inter ionic distance R

C

inter- cationic distance R^+

D

inter-anionic distance R^-

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Q24

In balancing it is very important to identify the substance whose

A

Physical state is changed

B

oxidation number is changed

C

Enthalpy is changed

D

All of these

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Q25

Large hydrocarbons are converted into smaller hydrocarbons by a process called as?

A

Reforming

B

Distillation

C

Cracking

D

Decomposition

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Q26

Which one of the following is larger in size than oxygen atom_____?

A

Fluorine

B

Nitrogen

C

Hydrogen

D

Neon

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Q27

When we move from left to right in transition elements, the decrease is ____ due to intervening electrons

A

large

B

very large

C

small

D

very small

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Q28

In a carboxylic acid dimer how many H-bonds are present ?

A

Three

B

Two

C

Five

D

One

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Q29 The rate of S_N1 reaction become doubled if _____?

A Concentration of Nucleophile doubled

B Concentration of Substrate doubled

C Concentration of Substrate Tripled

D Concentration of substrate remain same

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Q30

Li is different from its family members due to

A

Small size

B

High charge density

C

Less electro positivity

D

All of the above

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Q31

It is the fact that 22.414 dm³ of any gas has a different masses but the same number of _____

A

atoms

B

particles

C

molecules

D

none of these

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Q32

The shape of KNO_3 above 128°C is

A

cubic

B

orthorhombic

C

rhombohedral

D

tetragonal

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Q33

Which of the following reaction is used to produce symmetrical alkanes from alkyl halides?

A

Wittig reaction

B

Kolbe's electrolysis

C

Reduction of alkyl halide

D

Wurtz reaction

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Q34

Heat supplied at constant pressure equals to

A

Activation Energy

B

Internal energy change

C

Entropy

D

Enthalpy

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Q35

In Chemistry the work is generally

A

Done by Temperature change

B

Pressure - Temperature Work

C

Pressure Volume Work

D

None of these

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Q36

Select the most electronegative element among the following:

A

I

B

F

C

He

D

O

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Q37

Half-life can be found out for a reaction of

A

first order

B

Second Order

C

Any Order

D

Zero Order

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Q38 Which of the following causes the inactivation of enzymes _____?

A Concentration of substrate

B Optimum temperature

C Beta radiation

D Optimum pH

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Q39 In IUPAC nomenclature , ketones are named as_____?

A Alkanol

B Alkanal

C Alkanone

D Alkyl halides

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Q40

In stoichiometry, we follow law of _____ while doing calculations.

A

conservation of mass

B

definite proportion

C

both A & B

D

none of these

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Q41

2 moles of octane (C_8H_{18}) burns with 25 moles of oxygen (O_2) and produced ____ moles of carbon dioxide along with 18 moles of water

A

14

B

16

C

18

D

2

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Q42

How many electrons can occupy in 7th energy level of an atom. Calculate by using $2n^2$ formula

A

24

B

5

C

72

D

98

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Q43

The transition elements belongs to Group VIB are

A

Zn ,Cd, Hg

B

Fe, Ru, Os

C

Mn, Te, Re

D

Cr, Mo, W

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Q44

The molecules of CO_2 in dry ice form

A

covalent crystals

B

ionic crystals

C

metallic crystals

D

molecular crystals

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Q45

 $K_p = K_c (RT)^{\Delta n}$, T stands for

A

Temperature

B

Absolute Temperature

C

Critical Temperature

D

All of these

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Q46

The molecular geometry of SO_2 is

A

annular

B

ring

C

angular

D

linear

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Q47

Ammonia may be prepared by heating ammonium chloride with

A

Water

B

NaCl

C

Aqueous sodium hydroxide

D

H₂SO₄

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Q48 2-hydroxy propanoic acid is also called as_____?

A Stearic acid

B Butyric acid

C Maleic acid

D Lactic acid

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Q49 A diode works in _____ bias for rectification

A forward

B reverse

C mid

D positive

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Q50

SI unit of resistivity is

A

ohm

B

ohm meter

C

ohm/meter

D

meter/ohm

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Q51

Lasers are produced by

A

stimulated emission

B

spontaneous emission

C

absorption

D

all of these

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Q52

The particle that possesses half integral spin has

A

pion

B

proton

C

k-meson

D

photon

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Q53

Which of the following statements is true?

A

Power is proportional to voltage only

B

Power is proportional to current only

C

Power is neither proportional to voltage nor to the current

D

Power is proportional to both the voltage and current

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Q54

The angle subtended at the center of a circle by an arc equal to the radius of the circle is

A

One degree

B

One rotation

C

One radian

D

None of these

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Q55

What will be the product after alpha decay of U-238?

A

Th-234

B

Po-234

C

Rn-234

D

none of these

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Q56

If a pipe is closed at one end and open at the other, the closed end is a:

A

antinode

B

node

C

rarefaction

D

crest

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Q57

A strong magnetic field is applied on a stationary electron. Then the electron

A

moves in the direction of the field.

B

moves perpendicular to the direction of the field.

C

moves opposite to the direction of the field.

D

remains stationary.

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Q58

Force acting on a negative charge is always:....

A

in the direction opposite to electric field

B

in the direction of electric field

C

in the direction perpendicular to electric field

D

in the direction perpendicular to the velocity of charge

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Q59

When an ideal gas of constant mass is heated in a container of fixed volume. What is the reason for the increase in pressure of the gas?

A

number of molecules per unit volume increases

B

molecules occupy greater volume of the container

C

average force per impact at the container wall increases

D

molecules collide with each other with greater force

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Q60

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q61

Wave theory of light is unable to prove

A

Black body radiation

B

Photoelectric effect

C

Compton effect

D

All of them

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Q62

UV radiation is formed by bombarding gas molecules with

A

electron

B

protons

C

alpha rays

D

any of these

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Q63

A charge is moving with velocity v , it enters a uniform magnetic field B . The direction of v is perpendicular to B . What is the path of the charge particle inside the magnetic field?

A

parabolic

B

circular

C

parallel to v

D

parallel to E

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Q64

A wave passes through a medium, each particle of the medium performs 100 complete vibrations in 5 seconds. What is the frequency of the wave:

A

2 Hz

B

20 Hz

C

4 Hz

D

40 Hz

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Q65

Projectile motion of object on earth is always

A

linear

B

parabolic

C

cubic

D

inverse

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Q66

Reciprocal of resistivity is called

A

Resistance

B

Inductance

C

Conductivity

D

Flexibility

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Q67

Which, among the following qualities, is not affected by the magnetic field?

A

Moving charge

B

charge in magnetic flux

C

current flowing in conductor

D

stationary charge

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Q68

Do magnetic flux lines intersect?

A

Yes

B

No

C

depends on strength of field

D

cannot be determined

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Q69

The resistance of a conductor at absolute zero (0 K) is

A

Almost zero

B

Almost infinite

C

No prediction at all

D

May increase or decrease

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Q70

If a particle have charge q is accelerated through a potential difference V , then energy acquired by the particle is:...

A

$$V \times 2$$

B

$$V \times q$$

C

$$qV \times 2$$

D

$$qV$$

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Q71

Angle between radius vector and centripetal acceleration is

A

 0°

B

 π

C

 2π

D

none of these

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Q72

Which of the following blocks will release heat fast

A

rough white surface

B

polished white surface

C

rough black surface

D

polished black surface

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Q73

Photons of energy 10.25 eV fall on the surface of the metal emitting photoelectrons of maximum kinetic energy 5.0 eV. What is the stopping voltage required for these electrons?

A

10V

B

8V

C

5V

D

4V

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Q74

If the number of flux passing through a coil per unit time is doubled then motion emf also

A

halves

B

triples

C

doubles

D

remains unchanged

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Q75

A body of mass 10 kg is travelling with uniform speed of 5 m/s. Its kinetic energy is

A

125 J

B

250 J

C

500 J

D

255 J

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Q76

Work done in an adiabatic process in a gas depends on

A

Change in pressure

B

Change in temperature

C

Change in Volume

D

All of these

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Q77

The star which is very hot will emit ____ color

A

Blue

B

red

C

orange

D

green

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Q78

Velocity of an object changes from 20 m/s to 50 m/s in 5 sec. What is the acceleration of the object?

A

6 m/s

B

6 m/s²

C

10 m/s

D

10 m/s²

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Q79

A car is moving in a circular track of diameter 100m at a constant speed of 40m/sec. Find the centripetal acceleration?

A

 42 m/s^2

B

 52 m/s^2

C

 32 m/s^2

D

 30 m/s^2

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Q80

A spring having spring constant of 10 N/m^2 is stretched to 5 m , what will be the work done

A

250 J

B

50 J

C

-250 J

D

125 J

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Q81

A horse is pulling a cart of mass 50 kg in the horizontal direction, if the distance travelled is 20 m then what will be the work done by normal force

A

1000 J

B

-1000 J

C

0

D

500 J

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Q82

The bridge rectifier is preferred to an ordinary two diode full wave rectifier because

A

it needs much smaller transformer for the same output

B

no center tap required

C

less PIV rating per diode

D

All of the above

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Q83

Half wave rectifier passes only

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

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Q84

When path difference between two waves are integral multiple of wavelength, the resultant effect is called:

A

destructive interference

B

constructive interference

C

beats

D

diffraction

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Q85

In order to enhance magnetic flux, the primary and secondary coils of the transformer are wound on

A

soft iron core

B

iron core

C

hard iron core

D

steel core

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Q86

An object moves 20 m towards east and then 10 m towards west, in 5 sec. What is its average velocity and average speed?

A

speed = 6 m/s velocity = 2 m/s

B

speed = 6 m/s velocity = 6 m/s

C

speed = 2 m/s velocity = 2 m/s

D

speed = 2 m/s velocity = 6 m/s

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Q87

In a centre tap full wave rectifier if V_m is the peak voltage across the secondary of transformer, the maximum voltage across reverse bias is

A

 V_m

B

 $V_m/\sqrt{2}$

C

 $2V_m$

D

 $V_m/3$

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Q88

300 W heater is used to boil 500g of water at 100C. How long should the heater be switched on? Specific latent heat of vaporization of water is 2230 J/g.

A

62 mins

B

62 sec

C

1.5 hour

D

0.5 hour

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Q89

_____ are such nuclei of an element that have the same mass number A , but have different charge number Z

A

isotopes

B

isobars

C

isomers

D

isotherms

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Q90

The energy stored in a parallel plate capacitor is 24 J. What is the potential difference between the plates if the capacitance of the capacitor is $3\ \mu\text{F}$?

A

4 kV

B

16 kV

C

54 kV

D

8 kV

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Q91

If $^{238}_{94}\text{Pu}$ decay an alpha particle the new atomic number and mass number are

A

234,90

B

234,92

C

231,97

D

none of these

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Q92 The wavelength of x-ray is controlled by____

A increasing temperature

B decreasing pressure

C increasing P.D of electrodes

D none of these

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Q93

The phase angle between two points in a medium is $3\pi/4$. If the distance between these points is 20 cm, then wavelength of the wave is?

A

 $8/15$ m

B

 $15/8$ m

C

 $8/15$ cm

D

 $15/8$ cm

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Q94

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A

1

B

0.1

C

0.01

D

None of these

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Q95

Which of the following losses in a transformer is zero even at full load

A

Eddy current loss

B

Core loss

C

Copper loss

D

Friction loss

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Q96

A reversible carnot engine converts 1/6th of heat into input work then efficiency of engine is

A

0.5

B

0.6

C

0.1666

D

0.32

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Q97

The angular frequency is related to linear frequency by relation

A

inversely

B

directly

C

equally

D

none of these

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Q98

In non-competitive inhibition, the extent of inhibition depends only on?

A

concentration of enzyme

B

concentration of substrate

C

concentration of ES complex

D

concentration of inhibitor

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Q99

The membrane of vacuole is called:

A

Tonoplast

B

Plasma membrane

C

Epidermis

D

Both B and C

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Q100

The gene which cannot be determined by observing the organism is?

A

dominant

B

allele

C

phenotype

D

recessive

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Q101

Herpes simplex is caused by which virus?

A

adenovirus

B

Pox virus

C

influenza Virus

D

herpes virus

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Q102

In uncompetitive inhibition, the inhibitor binds with

A

enzyme

B

substrate

C

ES-complex

D

all of these

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Q103

Aschelminthes is also known as which of the following?

A

Protozoans

B

Eumetazoa

C

Protocist ancestors

D

Nematodes

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Q104

Smooth muscles, cardiac muscles and organs are regulated by which of the following?

A

Central nervous system

B

Parasympathetic nervous system

C

Sympathetic nervous system

D

Autonomic system

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Q105

The thalamus and the hypothalamus are located in which region of the brain?

A

brain stem

B

cerebrum

C

cerebellum

D

Diencephalon

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Q106

A structural component that is found in all viruses is?

A

envelope

B

DNA

C

Capsid

D

Tail Fibers

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Q107

The size of Spirochete is approximately?

A

0.75-1.25 μm

B

100-200 nm

C

0.1 -600 μm

D

500 μm

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Q108

Factory of ribosomal synthesis is?

A

cytoplasm

B

nucleus

C

nucleolus

D

endoplasmic reticulum

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Q109

Which of the following are believed to have common origin with annelids?

A

nematodes

B

Arthropods

C

molluscs

D

none of these

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Q110

Which of the following statements is correct distinction between autotrophs and heterotrophs

A

only heterotrophs require chemical compounds from the environment

B

cellular respiration is unique to heterotrophs

C

only heterotrophs have mitochondria

D

autotrophs but not heterotrophs can nourish themselves beginning with nutrients that are entirely inorganic

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Q111

Out of 31 pairs of spinal nerves, how many pairs of coccygeal nerves are there?

A

1

B

5

C

10

D

12

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Q112

Which of the following can not be used to mediate the fusion of plasma membranes of two different cells?

A

electric shock

B

inactivated viruses

C

polyethylene glycol

D

emulsifier

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Q113

Visible genetic traits include which of the following?

A

hair color

B

eye color

C

number of limbs

D

all of these

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Q114

Molecular formula of chlorophyll b is?

A

 $C_{55}H_{10}O_4N_6Mg$

B

 $C_{55}H_{70}O_6N_5Mg$

C

 $C_{55}H_{71}O_6N_4Mg$

D

 $C_{55}H_{70}O_6N_4Mg$

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Q115

Cryptorchidism is a condition where?

A

One of both testes are not developed

B

One or both testes are not formed

C

One or both testes fail to descend into the scrotum

D

none of these

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Q116

The muscle which moves a body part towards the midline of the body is:

A

flexor muscles

B

Extensor muscles

C

adductor muscles

D

abductor muscles

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Q117

In alkaline medium amino acids carry negative charge and act as

A

acid

B

base

C

neutral

D

none of these

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Q118

Lymphocytes are found in:

A

Lymph capillary

B

Lymph vessel

C

Lymph trunk

D

lymph node

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Q119 Which of the following cells do not possess a nucleus?

A Sieve tube cells

B Bacteria

C Red blood cells

D All of the above

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Q120

Sperms are produced in the testes and stored in?

A

testes

B

scrotal sacs

C

seminal vesicle

D

prostate gland

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Q121

When puberty takes place in girls, which one of the following does not occur?

A

Shoulders broaden

B

Breasts enlarge

C

Eggs start producing

D

Womb grows bigger

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Q122

The material in brain and spinal cord contains cell bodies and dendrite of nerve cells is:

A

White matter

B

Gray matter

C

brown matter

D

blue matter

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Q123

Which of the following are the main functions of the capsid?

A

Determines the antigenic specificity of the virus

B

Protects genetic material from nuclease attack

C

Both A and B

D

none of the above

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Q124

Glycophorin is involved in which of the following disease?

A

viral fever

B

common cold

C

asthma

D

malaria

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Q125

The organs that produce reproductive cells are known as?

A

gametes

B

gonads

C

glands

D

follicles

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Q126

Enzyme which helps in changing the shape of molecule is called?

A

ligases

B

dehydrogenases

C

hydrolyses

D

isomerases

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Q127

Which of the following is false about conjugation?

A

It forms a bridge between two bacterial cells

B

It involves transport of genetic material via vectors

C

It is a form of sexual reproduction

D

both a and b

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Q128

Cytochromes are electron transport intermediates containing?

A

myoglobin

B

heam

C

globulin

D

fibrin

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Q129

Binary fission occurs in which stage of the bacteriophage life cycle?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

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Q130

The cartilage protects the trachea from:

A

collapsing

B

swelling

C

vibrating

D

breaking

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Q131

Two pea plants are crossed. One plant is homozygous dominant for purple flowers, and the other is homozygous recessive for white flowers. What fraction of the F₂ population will have white flowers?

A

 $\frac{1}{4}$

B

 $\frac{1}{2}$

C

 $\frac{1}{8}$

D

 $\frac{1}{16}$

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Q132

Which of the following is false about the sarcoplasmic reticulum?

A

The sarcoplasmic reticulum is a specialized smooth endoplasmic reticulum

B

The sarcoplasmic reticulum releases calcium ions into the cytoplasm of the muscle cell

C

A change in membrane potential causes the sarcoplasmic reticulum to become more permeable to calcium ions

D

The sarcoplasmic reticulum is found only in voluntary muscle cells

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Q133

Which type of reflex arc affects inner organs?

A

autonomic reflex arc

B

somatic reflex arc

C

Both A and B

D

None of these

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Q134

Which cells absorb carbon dioxide in the leaf?

A

neutrophil cells

B

basophil cells

C

mesophyll cells

D

all of these

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Q135

What is the definition of "fitness" in terms of evolution?

A

The organism's ability to attain resources while in competition with other organisms of its species

B

The organism's ability to attract the most mates

C

The organism's health

D

The ability of an organism to contribute its genes to future generations

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Q136

The number of functional parts in forebrain is:

A

2

B

3

C

4

D

5

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Q137

Spherical or tubular membranes which separate the material present in endoplasmic reticulum from that of cytoplasmic material are called?

A

cytosol

B

cisternae

C

lysosomes

D

cristae

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Q138

Non toxic vitamins include which of the following?

A

vitamin c

B

vitamin b

C

both a and b

D

none of these

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Q139

The following enzymes are regulated by calcium ions____

A

DNA polymerase

B

adenylate cyclase

C

phosphoprotein phosphatase

D

nitric oxide synthetase

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Q140

Which of the following organism has a eel like body?

A

Chondrichthyes

B

Osteichthyes

C

Cyclostomata

D

both a and b

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Q141

When a female ovulates, in what phase of division is the oocyte?

A

Anaphase I

B

Prophase I

C

Metaphase I

D

Metaphase II

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Q142

The process that does not occur during expiration is:

A

intercostal muscles are relaxed

B

ribs are relaxed

C

muscles of diaphragm are relaxed

D

Lungs are relaxed

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Q143

Which of the following is not a viral disease?

A

smallpox

B

mumps

C

tetanus

D

cowpox

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Q144

Hydrolysis of fats by alkali is called

A

Saponification number

B

Saponification

C

Both (A) and (B)

D

None of these

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Q145

Of the following, which one is a light gathering structure?

A

Antenna complex

B

reaction center

C

photosystem

D

none of these

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Q146

The part of chlorophyll molecule is embedded in the core of thylakoid membrane which is?

A

Hydrophilic

B

Hydrophobic

C

both of these

D

none of these

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Q147

Cnidaria is characterized by which of the following?

A

Tissue level of organization

B

Nematoblasts

C

Coelenteron

D

all of these

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Q148

The bronchitis is of types?

A

2

B

3

C

4

D

5

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Q149

The brain that coordinates skeletal muscle movements is:

A

thalamus

B

amygdala

C

hypothalamus

D

cerebellum

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Q150

For a diploid species, each locus is represented _____ in the genome of an individual

A

Sight

B

Once

C

Twice

D

Empty space

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Q151

A key property of a living being is that it contains _____ for making its protein

A

amino acids

B

mitochondria

C

mRNA

D

ribosomes

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Q152

Pidgeon, platypus and panda are all representatives of which of the following?

A

Homeothermic

B

Hyperthermic

C

Poikilothermic

D

none of these

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Q153

The soluble sap of the nucleus in a plant cell is called?

A

cytoplasm

B

nucleoplasm

C

protoplasm

D

protoplast

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Q154

The several distinct arrangements of cocci is based on their

A

long chain of cells

B

planes of division

C

grape like clusture shape

D

All of Above

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Q155

Radial symmetry is found in which of the following organisms?

A

Coelenterata and Platyhelminthes

B

Arthropoda and Mollusca

C

Porifera and Coelenterata

D

Coelenterata and Echinodermata

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Q156

Which substances can cross plasma more easily?

A

starch

B

protein

C

lipid soluble

D

ions

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Q157

What type of inhibition effects both the Michaelis constant and the maximum reaction rate of an enzyme?

A

Non-competitive inhibition

B

Competitive inhibition

C

Uncompetitive inhibition

D

all of these

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Q158

What is your name?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q159

Choose the correct sentence.

A

Dr Hussain works at city hospital in gulberg.

B

Dr Hussain works at City Hospital in Gulberg?

C

Dr Hussain works at City Hospital in Gulberg.

D

Dr Hussain works at city hospital in Gulberg.

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Q160

Plenty of mangoes and bananas _____ available in this season.

A

is

B

are

C

was

D

were

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Q161

The plane _____ at 5:00.

A

arrived

B

will arrive

C

shall arrive

D

arrive

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Q162

reluctant

A

hesitant

B

ready

C

eager

D

willing

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Q163

_____ apple a day keeps the doctor away.

A

A

B

An

C

The

D

No article

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Q164

The teacher _____ completed this chapter.

A

have

B

has

C

is

D

are

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Q165

All that _____ is not gold.

A

glitter

B

has glittered

C

glitters

D

is glittering

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Q166

A pair of socks _____ been missing from my wardrobe.

A

have

B

has

C

were

D

is

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Q167

Choose the correct spelling of the word

A

doen

B

dun

C

don

D

done

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Q168

She is very weak (A) / in the subject(B)/ and does not understand things (C)/ though the teacher explains her repeatedly. (D)

A

She is very weak

B

in the subject

C

and does not understand things

D

though the teacher explains her repeatedly.

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Q169

Choose the correct sentence.

A

Didnt you hear that the exam was changed to next week.

B

Didn't you hear, that the exam was changed to next week?

C

Didn't you hear that the exam was changed to next week?

D

Did'nt you hear that the exam was changed to next week?

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Q170

This medicine is _____ from plants.

A

deprived

B

derived

C

derisive

D

derivative

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Q171

Your performance _____ our expectations.

A

except

B

excelled

C

exceeded

D

expected

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Q172

It was _____ dark, dreary night.

A

a

B

an

C

the

D

no article

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Q173

Choose the correct sentence.

A

Mother said "leave the dishes on the table until we have finished eating."

B

Mother said "Leave the dishes on the table until we have finished eating."

C

Mother said, "Leave the dishes on the table until we have finished eating."

D

Mother said, leave the dishes on the table until we have finished eating.

Q174

_____ man is mortal.

A

A

B

An

C

The

D

No article

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Q175

2 look at this series 7,10,8,11,9,12. Which number you think will be next?

A

10

B

12

C

13

D

7

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Q176

Statement: The literacy rate in the district has been increasing for the last four years. The district administration has conducted extensive training programme for the workers involved in the literacy drive.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

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Q177

What is the common vowel in Apple and Banana?

A

E

B

P

C

A

D

M

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Q178

Statement According to reports the childrens below age 10 are being aggressive because of mobile phones I. Parents needs to be strict to their child. II. Parents need to be concerned and lemmatize their screening time.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q179

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q180

Statement: The prices of vegetables have been increased considerably during this summer. There is tremendous increase in the temperature during this summer thereby damaging crops greatly.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q181

A city can not exist without?

A

Residents

B

Shops

C

shopping Malls

D

Grounds

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Q182

Arrange the following words in a meaningful sequence. 1.Infection 2.Consultation 3.Doctor 4.Treatment 5.Recovery

A

1, 3, 4, 5, 2

B

1, 3, 2, 4, 5

C

1, 2, 3, 4, 5

D

2, 3, 5, 1, 4

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Q183

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows

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Q183

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows

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Q184

Complete the series A25, B625, C15625, _____?

A

D390625

B

D364748

C

D390524

D

D390525

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Q185

Methanol is prepared by compressing water gas mixture at pressure

A

3 atm

B

2 atm

C

45 atm

D

25 atm

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Q186

A voltaic cell produces electrical energy from

A

Potential energy

B

Chemical energy of Ions

C

Kinetic Energy

D

Free Electrons

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Q187

In Charles's Law, volume of gas is directly related to which factor?

A

Pressure

B

Temperature

C

Volume

D

Number of moles

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Q188

Three dimensional folding of polypeptide chain results in formation of_____.

A

Primary structure

B

Secondary structure

C

Tertiary structure

D

Quaternary structure

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Q189

After adding two half reactions in ion electron method

A

Net charge should be same on each side

B

Total number of atoms should be same

C

Total number of ions should be same

D

Both A and B

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Q190

What is the IUPAC name of $\text{CH}_3(\text{CH}_3)\text{CHCH}_3$?

A

1-Methylpropane

B

Isobutane

C

2-Methylpropane

D

Isopropyl methane

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Q191

metals are malleable and ductile because their layers _____ on applying pressure

A

remain fixed

B

slip past each other

C

rotate

D

twist

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Q192

Rate of a reaction is dependent on

A

Reactant's Concentration

B

Product Concentration

C

Slowest Step

D

All of these

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Q193

The displacement is a:...

A

vector quantity

B

scalar quantity

C

neither vector nor scalar quantity

D

dimensionless quantity

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Q194

The atomic mass unit is unit of

A

distance

B

mass

C

time

D

none of these

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Q195

When path difference between two waves are odd integral multiple of half the wavelength, the resultant effect is called

A

destructive interference

B

constructive interference

C

beats

D

diffraction

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Q196

Centrifugal acceleration of a car moving around in a circle of radius 5 m with 10 m/s velocity

A

 20 m/s^2

B

 10 m/s^2

C

 6 m/s^2

D

 11 m/s^2

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Q197

Thylakoids in chloroplasts are stacked into?

A

Grana

B

Stroma

C

Nucleus

D

None of these

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Q198

Genotype ratio of Mendel's law of independent assortment is which of the following?

A

3:1

B

1:02:01

C

9:3:3:1

D

none of these

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Q199

The wavelength of matter wave is independent of :

A

Mass

B

Velocity

C

kinetic energy

D

Charge

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Q200

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is parallel to the field

A

0.01 wb

B

0 Wb

C

 $8.66 \times 10^{-3} \text{ Wb}$

D

0.86 wb

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Q201

Cancer expands systematically by:

A

Locally

B

Systemic

C

Metastasis

D

Invasion

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Q202

In humans, fertilization involves the addition of chromosomes from the sperm and the egg. The resulting cell is called a?

A

zygote

B

egg

C

embryo

D

fetus

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Q203

Neither me nor my parents ____ aware of the incident.

A

would be

B

is

C

was

D

were

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Q204

A uniform chain of mass M and length L is lying on a smooth table and a part of it is hanging from the table. The work required to pull the hanging part of the chain on to the table is . Find the part of the chain in terms of its length which is hanging from the table:

A

 $L/3$

B

 $L/4$

C

 $L/6$

D

 $L/2$

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Q205

In parthenocarpy which levels are high in ovaries?

A

gibberellins

B

cytokinins

C

auxins

D

all of these

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Q206

The arrangement of cocci is basically due to thier

A

shapes

B

planes of division

C

binary tission

D

chain formation

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Q207

Vertebrates are evolutionarily adapted to terrestrial life. Which one of the following adaptations is LEAST likely to contribute to this land-based predominance?

A

Internal fertilization

B

Impermeable outer skin

C

Development of legs

D

Short loops of Henle

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Q208

rectify

A

correct

B

preserve

C

repeat

D

justify

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Q209

Inflammation of the joint is known as

A

Sciatica

B

Arthritis

C

Spondylosis

D

Disc-slip

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Q210

Choose the correct spelling of the word

A

shoose

B

shoes

C

shews

D

sheos

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Q210

Choose the correct spelling of the word

A

shoose

B

shoes

C

shews

D

sheos

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